Honolulu High Capacity Transit Corridor Project Contract Packaging Plan

Rev2 February 5, 2009



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Introduction

The Contract Packaging Plan and associated schedule were developed in mid-September 2008 in response to a request from FTA's PMO Risk Assessment Consultant to have a comprehensive overall schedule which includes the gap between the GEC's PE schedule and the construction program schedule. The request also suggested that the program schedule highlight various FTA review activities required as a precedent to the negotiation of a Full Funding Grant Agreement (FFGA).

At the time of preparing this document, the City and County of Honolulu (City) is seeking FTA authorization to enter Preliminary Engineering for the project. The Administrative Draft Environmental Impact Statement is under review and work is continuing on advanced conceptual engineering.

A complete description of the Project and the organization being utilized by the City to implement the Project during the PE Phase can be found in the Project Management Plan.

The City intends to implement the project following Preliminary Engineering within the Rapid Transit Division (RTD) of the City's Department of Transportation Services (DTS).

To augment its direct staff on the project, the City also intends to use a Program Management Consultant (PMC) who would fill certain specialized positions within the RTD team.

RTD also intends to select a General Construction Manager to oversee all remaining services, procurement and construction on the project. The responsibilities of the General Construction Manager (GCM) will be to assist the City in oversight of all of the Project's design, construction, procurement, manufacturing, installation, testing and commissioning.

While a portion of the Project construction will be procured by the Design-Build (DB) method, most of the project will be implemented through the procurement of individual design organizations under Service contracts (SV) who will prepare design documents for individual construction packages to be procured with the Design-Bid-Build (DBB) method. The work of these individual package design teams will be overseen by the GCM. Two project wide contracts are currently proposed to be issued as Manufacture-Install (MI) contracts (for Systems including Vehicles and for Elevators/Escalators). Two project wide contracts are proposed to be Owner Furnish (OF) contracts (for Ticket Vending Machines and for Plants/Shrubs).

In Section 3 each of the 35 contracts are identified. In Sections 6 thru 10 information is provided on each contract on scope, schedule, budget, type of contract, responsible party and interface with other contracts.

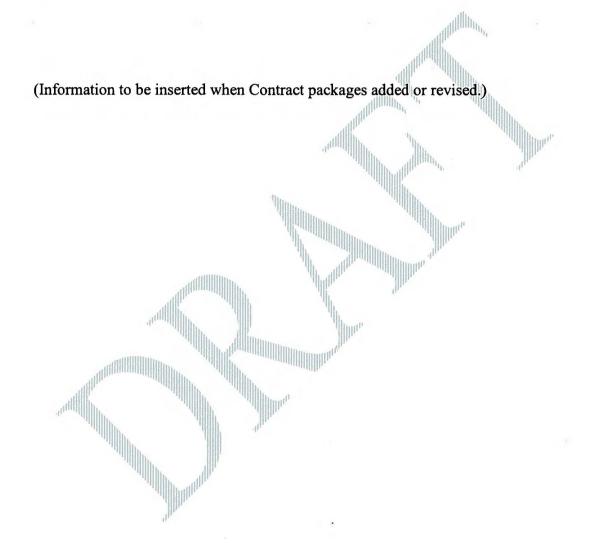


Synopsis of Changes

1) Revs made Nov 3 thru 5, 2008 to Contract Packaging Plan include renumbering of contracts and revs to schedule dates to be consistent with latest project schedule data. Rev #s added to all sheets. Revs made by I Hubbard. Rev data stored on ProjectSolve at

2) Revs made February 4, 2009 to include Replace Salt lake Alignment with the Airport Alignment.

3)



Procurement Packaging Contract Summary:

The Table below reflects the current thinking about procurement packaging which identifies 35 individual contracts although it is to be expected that there will be others added as program definition is further developed. Furthermore this particular breakout of contracts is subject to modification during Preliminary Engineering. The contracts reflected in the schedule include:

A	Contract #	Activity #
Service Contracts (14)	errest	And the state of t
Program Management Support	SV-900	S100 S120
General Construction Management	SV-910	V100 V120
Kamehameha Utility & Guideway Design	SV-330	K108 K110 K120
Airport Utility & Guideway Design	SV-430	G120 G130 G140
City Center Utility & Guideway Design	SV-530	C100 C110 C120
West Oahu Stations (3) Design	SV-140	X100 X110
Farrington Stations (3) Design	SV-240	R120 R130
H2 Ramps at Pearl Highlands Park Facility	SV-230	R500 R510
Pearl Highlands Station & Multi Level Park Facility	SV-245	R320 R330
Kamehameha Stations (2) Design	SV-340	J100 J110
Airport Stations (4) Design	SV-440	H100 H110
Dillingham Stations (3) Design	SV-540	tbd
City Center Stations (3) Design	SV-542	U100 U110
Kaka'ako Stations (3) Design	SV-545	Y100 Y110

Design-Build Construction Contracts (2)		
West Oahu/Farrington Guideway & Utilities	DB-1200	W100 W110 W120
Maintenance & Storage Facility Construction	DB-200	M100 M110 M120

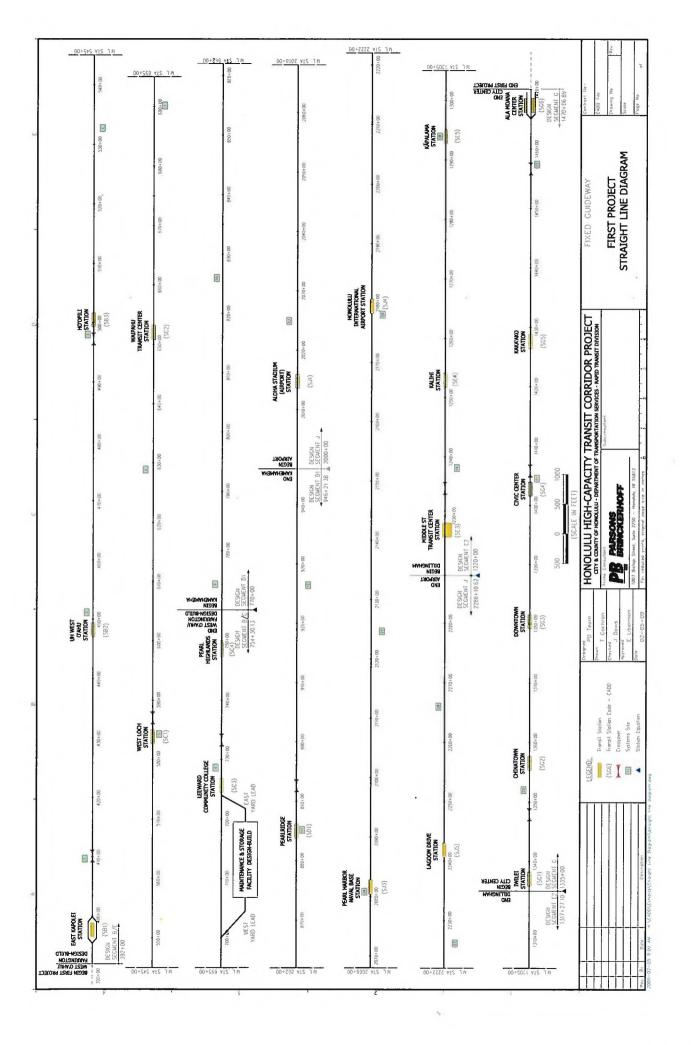
Design-Bid-Build Construction Contracts (15)		
Kamehameha Utility Relocations	DBB-350	K200 K210
Salt Lake Utility Relocations	DBB-450	G200 G230
City Center Utility Relocations	DBB-550	C200 C210
Kamehameha Guideway Construction	DBB-360	K300 K310
Airport Guideway Construction	DBB-460	G300 G310
City Center Guideway Construction	DBB-560	C300 C310
West Oahu Stations (3) Construction	DBB-170	X200 X210
Farrington Stations (3) Construction	DBB-270	R200 R210 R250

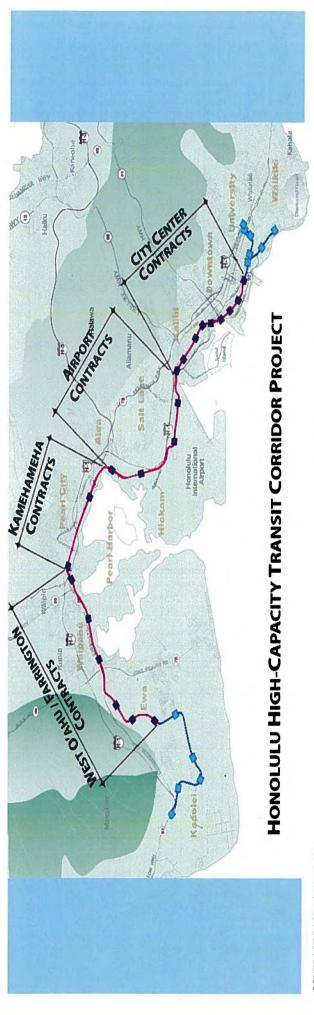
		R260
Pearl Highlands Station & Multi Level Park Facility	DBB-275	R400 R410 R420
H2 Ramps at Pearl Highlands Park Facility	DBB-260	R600 R610
Kamehameha Stations (2) Construction	DBB-370	J200 J210 J220 J230
Airport Stations (3) Construction	DBB-470	H100 H110
Dillingham Stations (3) Construction	DBB-570	tbd
City Center Stations (3) Construction	DBB-572	U200 U210 U220
W-12-1 C4-4' (2) C44'	DDD 676	U330
Kaka'ako Stations (3) Construction	DBB-575	Y200 Y210 Y220 Y230

Manufacture & Install Contracts (2)	A A A A A A A A A A A A A A A A A A A	
Vehicles/Systems procure, install, test, commission	MI-920	P320 P380 P420
	A STATE OF THE STA	P460 P470 T250
Elevators/Escalators procure, install, test, commission	MI-930	L100 L110

Owner Furnish Contracts (2)	A part of the part	180	
Owner Furnish ticket Vending Machines	OF-940	TBD	
Owner Furnish Plants & Shrubs	OF-950	TBD	

In Sections 6 thru 10 each of these contracts are identified by a Contract Number (e.g. DBB-460), a CPM Schedule activity code (e.g. I-740) and details are provided on scope, schedule, budget, type of contract, responsible party and interface with other contracts.



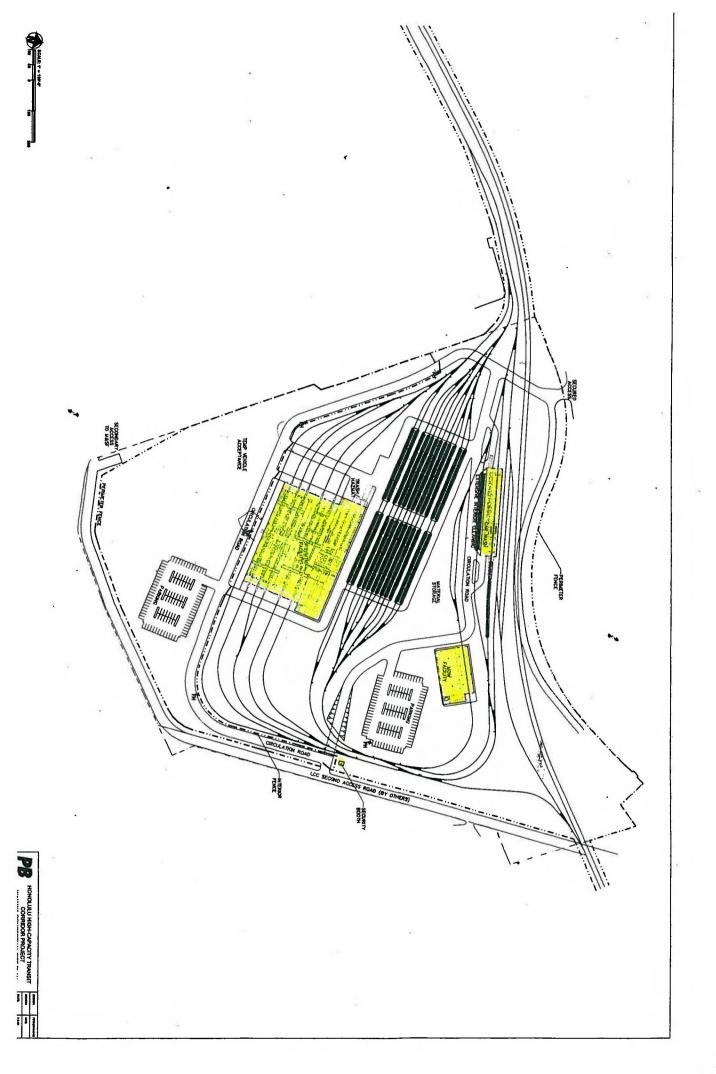


CONTRACT PACKAGING PLAN.

West Oahu contracts (1)	Farrington contracts (2)	Kamehameha contracts (3)	Alrport contracts (4)	City Center contracts (5)	Project Wide contracts (9)
SV140 WOahu Stations (3) Design DB1200 WOahu Utility & Guideway DB DBB170 WOahu Station Construct	SV230 Farrington H2 Ramps Design SV240 Farrington Stations (3) Design SV245 Peart Hand Sta & Garage Design DB200 Maint & Storage Facility On BB220 Farrington H2 Ramps Construct DBB270 Farrington Station Construct DBB275 Peart H1and Sta & Garage Construct DB1200 Farrington Utility & Guideway DB	Sv330 Kam Design Util & Guideway Design Sv340 Kam Stations (2) Design DBB350 Kam Utility Relocation DBB360 Kam Guideway Construct DBB370 Kam Stations (2) Construct	SV430 Airport Util & Guideway Design SV440 Airport Stations (3) Design DBB450 Airport Utility Relocation DBB460 Airport Guideway Construct DBB470 Airport Stations (3) Construct	SV530 City Center Util & Guideway Design SV900 Project Wide Program Mgmt SV540 Dillingham Stations (3) Design SV545 Raka'ako Stations (3) Design SV545 Kaka'ako Stations (3) Design BBS50 City Center Utility Relocation DBBS50 City Center Guideway Construct DBBS70 Dillingham Stations (3) Construct DBBS77 Kaka'ako Stations (3) Construct Catalogue Catal	SV900 Project Wide Program Mgmt SV910 Project Wide Construction Mgmt MI920 Project Wide System & Vehicles MI930 Project Wide Elevators & Escalators OF940 Project Wide Ticket Vend Machines OF950 Project Wide Plants & Shrubs
		, , , ,			

Second digit rule does not apply to 9xx series. x3x Design Utility & Guideway
x4x Station design
x5x Utility relocation
x7x Station construction
x6x Guideway construction
x7x Station construction Second digit indicates category: 5xx City Center x6x Gui War Project wide wide wind wide wind with a factor of wind wind with a factor of wind wind wind wind with a factor of wind wind with a factor of wind wind with a factor of wind wind with a factor of wind wind with a fa Contract numbers typically 3 digits First digit indicates location:
1xx West Oahu
2xx Farrington
3xx Kamehameha 4xx Airport Contract Coding: SV Service Contracts
DB Design Build Contracts
DBB Design Bid Build Contracts
MI Manufacure + Install Contracts
OF Owner Furnish Contracts
MI Manufacure + Install Contracts
OF Owner Furnish Contracts
OF Owner Furnish Contracts

Rev # 4 Data Date 2/01/2009 Prepared by: I Hubbard



Service Contracts:

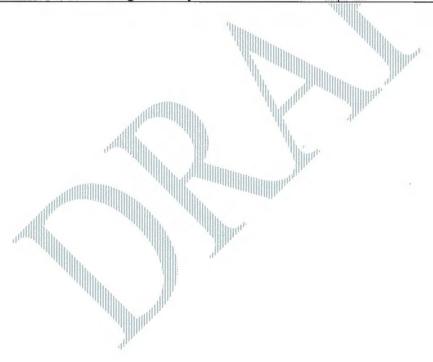
The Table below reflects the current thinking on procurement packaging of Service (SV) contracts with 14 Service contracts currently reflected in the schedule.

Contract #	Activity #
A CONTRACTOR OF THE PROPERTY O	
SV-900	S100 S120
SV-910	V100 V120
SV-330	K108 K110 K120
SV-430	G120 G130 G140
SV-530	C100 C110 C120
SV-140	X100 X110
SV-240	R120 R130
SV-230	R500 R510
SV-245	R320 R330
SV-340	J100 J110
SV-440	H100 H110
SV-540	
SV-542	U100 U110
SV-545	Y100 Y110
	SV-900 SV-910 SV-330 SV-430 SV-530 SV-140 SV-240 SV-245 SV-245 SV-340 SV-440 SV-540 SV-542

Design-Build Contracts:

The Table below reflects the current thinking on procurement packaging of Design-Build (DB) contracts with 3 Design-Build contracts currently reflected in the schedule.

Design-Build Construction Contracts (3)	4.	And and an analysis of the second sec
West Oahu/Farrington Guideway & Utilities	DB-1200	W100 W110 W120
Maintenance & Storage Facility	DB-200	M100 M110 M120



Design-Bid-Build Construction Contracts:

The Table below reflects the current thinking on procurement packaging of Design-Bid-Build (DBB) contracts with 15 Design-Build contracts currently reflected in the schedule.

	<u>(h. 4. '4000)</u>	
Design-Bid-Build Construction Contracts (15)	and the second s	
Kamehameha Utility Relocations	DBB-350	K200 K210
Salt Lake Utility Relocations	DBB-450	G200 G230
City Center Utility Relocations	DBB-550	C200 C210
Kamehameha Guideway Construction	DBB-360	K300 K310
Salt Lake Guideway Construction	DBB-460	G300 G310
City Center Guideway Construction	DBB-560	C300 C310
West Oahu Stations (3) Construction	DBB-170	X200 X210
Farrington Stations (3) Construction	DBB-270	R200 R210 R250
	The second secon	R260
Pearl Highlands Station & Multi Level Park Facility	DBB-275	R400 R410 R420
H2 Ramps at Pearl Highlands Park Facility	DBB-260	R600 R610
Kamehameha Stations (2) Construction	DBB-370	J200 J210 J220 J230
Airport Stations (3) Construction	DBB-470	H100 H110
Dillingham Stations (3) Construction	DBB-570	
City Center Stations (3) Construction	DBB-572	U200 U210 U220
		U330
Kaka'ako Stations (3) Construction	DBB-575	Y200 Y210 Y220
		Y230

Manufacture-Install Contracts:

The Table below reflects the current thinking on procurement packaging of Manufacture-Install (MI) contracts with 2 Manufacture-Install contracts currently reflected in the schedule.

A STATE OF THE PARTY OF THE PAR

Manufacture & Install Contracts (2)	The second secon	A A A A A A A A A A A A A A A A A A A
Vehicles/Systems procure, install, test, commission	MI-920	P320 P380 P420
1	And the state of t	P460 P470 T250
Elevators/Escalators procure,install,test,commission	MI-930	L100 L110

Owner Furnish Contracts:

The Table below reflects the current thinking on procurement packaging of Owner Furnish (OF) contracts with 2 Owner Furnish contracts currently reflected in the schedule.

Owner Furnish Contracts (2)	Annual Control of the	0.0000000000000000000000000000000000000	
Owner Furnish ticket Vending Machines	OF-940	TBD	
Owner Furnish Plants & Shrubs	OF-950	TBD	



Contract # Contract Title	SV-140 West Oahu Stations (3) Design (East Kapolei, X100, X110 UH West Oahu & Ho'opili) Sta 370+00 to Sta 570+00		ty#		
Contract info	Type QBS Selection - Service Contract Proposal Date Award Date	Budgeted Cost \$1,380,659 NTP Date Completion Date			
Current Status	6/18/2010 10/15/2010 Advanced Conceptual Engineering by PB Lead engineer: Martin Hall, Architect Kanuji Parmar	10/16/2010	10/30/2011		
Scope	1. Design East Kapolei Station, incl 12 acre Part 2. Design UH West Oahu Station, incl two 5 acre 3. Design Ho'opili Station (no concourse) Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needs 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction (East Kopolei - 12 acre 8. Platform to be placed on cap (caps by guideway contr 10. Vertical circulation (escalators and elevators to be 11. Construct concourse incl columns and foundation 12 Lighting, HVAC electrical service to ancillary space 12. Fire suppression system(s) and equipment as re 14. Installation security systems & alarms	ere Park and Ride eded res & UH West Oahu - 2-Five acre lots) y contractor) ntractor) b be procured by City) tions except in shadow of guideway hace and station equipment			
Interface with other Contracts	Mi-920 Systems and vehicles Mi-930 Elevators and escalators	,			
Force Account					
Right of Way and Construction Easements					
Design Responsibility CM Responsibility					
		-			

Contract # SV-230 Schedule Activity # Ramps at H2 and Utility Relocation Design R500, R510			ity#		
Contract info	Type QBS Selection - Service Co	ntract	Budgeted Cost \$3,591,818		
	Proposal Date Av	ward Date 17/2010	NTP Date 7/18/2010	Completion Date 7/17/2011	
Current Status	Advanced Conceptual Engir Lead engineer: Barry Mura		- 1		
Scope	3. Design Drainage for ramp 4. Design Lighting for ramps 5. Design Highway repairs 6. Design landscaping, fenc 7. Construct laydown yard(s	nns and superstuctures modifications, signaging, civil site improver and casting yard, te	nents, irrigation		
Interface with other Contracts	SV-330 Design Utility & Guid SV-245 Design Pearl Highla			у	
Force Account					
Right of Way and Construction Easements					
Design Responsibility					
CM Responsibility					

Contract # Contract Title	SV-240 Farrington Stations (3) Design (West Loch, Waipahu,Leeward Com College,) Sta 570+00 to Sta 770+00		ract Title Farrington Stations (3) Design (West Loch, Waipahu,Leeward Com College,) Sta 570+00 to Sta 770+00		Schedule Activi R120, R130	ity#
Contract info	Type QBS Selection - Service Contra	act	Budgeted Cost \$1,374,483			
		d Date 2010	NTP Date 1/11/2010	Completion Date 1/10/2011		
Current Status	Advanced Conceptual Enginee Lead engineer: Martin Hall, Ard		mar			
Scope	Design West Loch Station Design Waipahu Station, i Design Leeward Communi	ncl Transit Cente				
	Note: All station designs included 1. All required Design Permits 2. Station construction and finitials. Facilities Electrical & Mecha 4. Site work around stations in 5. Site landscaping 6. Coordination with the Transi 7. Transit center 8. Platform to be placed on cap 9. Construct canopy (foundation 10. Vertical circulation (escalated 11. Construct concourse included 12 Lighting, HVAC electrical services 13. Fire suppression system(s) 14. Installation security systems	shes inical cluding demo if ne it Arts Program (caps by guidewa ns by guideway co ors and elevators to lumns and founda rvice to ancillary s and equipment as	ny contractor) Intractor) To be procured by Cit Itions except in shad pace and station equ	ow of guideway ipment		
Interface with other Contracts	DB-1200 West Oahu / Farringto MI-920 Vehicle and Systems MI-930 Elevators and escalator		Jtilities			
Force Account						
Right of Way and Construction Easements			· ·			
Design Responsibility						
CM Responsibility						

Contract # Contract Title	SV-245 Design Pearl Highlands Station and Mutlti Level Parking Structure Sta 580+00 to Sta 770+00	Schedule Activ R320, R330			
Contract info	Type Budgeted Cost QBS Selection - Service Contract \$925,578				
	Bid Date Award Date 9/13/2009 1/10/2010	NTP Date 1/11/2010	Completion Date 5/25/2011		
Current Status	Advanced Conceptual Engineering by PB Segment Lead: Barry Muranaka, Architect	Kanuji Parmar			
Scope	!. Design Pearl Highlands Station 2. Design Multi Level parking Facility adjacent to Pearl Highlands Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment				
Interface with other Contracts	13. Fire suppression system(s) and equipm 14. Installation security systems & alarms SV-330 Kamehameha Guideway and Utilit MI-920 Vehicle and Systems MI-930 Elevators and escalators		Бер т.		
Force Account			<u></u>		
Right of Way and					
Construction Easements					
Design Responsibility					
CM Responsibility					

Contract # Contract Title	SV-330 Kamehameha Utility and Guideway Design Sta 748+04 to Sta 924+26		tract Title Kamehameha Utility and Guideway Design K108, K110, K120			CONTRACTOR OF THE CONTRACTOR O
Contract info	Type QBS Selection - Service Contract		Budgeted Cost \$12,199,718			
	Proposal Date 9/13/2009	Award Date 1/10/2010	NTP Date 1/11/2010	Completion Date A)5/11/2011 B) 4/15/2011		
Current Status	Advanced Conceptual Lead engineer: Hank to City and County prepa	Wei (Utilities) & Barry Mura	anaka (Guideway)			
Scope	1. All required Design Permits A) Kamehameha Utility Relocation Design 1. Design OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, TV cable, Water, Sewer, Petroleum) B) Kamehameha Guideway Design 1. Design guideway foundations, substucture and superstructure incl plinths and rail 2 Design conduits for Systems contracts 3. Design anchorages and base plates for Stations contracts (2 stations not included) 4. Design 3 (9, 10 &11) TPSS - (foundations, underground conduits and risers only) 5. Design conduits in cable tray inside guideway 6. Design 2 X-Overs, incl switch machines 7. Design modifications to affected intersections including signalization 8. Design landscaping, fencing, civil site improvements and irrigation 9. Design station concourse foundation within shadow of guideway 10. Design roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc 11 Design guideway electrical services for lighting, switch machine & other wayside equipment. Current engineering assessment is this stretch will require 14 straddle bents + 7 C-bents.					
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities SV-430 Salt Lake Utility and Guideway Design SV-340 Kamehameha Stations (2) Design MI-920					
Force Account						
Right of Way and Construction Easements		•	· · · ·			
Design Responsibility CM Responsibility						

Contract Title Kamehameha Stations (2) I (Pearl Ridge & Aloha Stadi Sta 770+00 to Sta 980+00				rity#
Contract info	Type QBS Selection - Service Contract		Budgeted Cost \$2,911,979	
	Bid Date 11/10/2011	Award Date 3/8/2012	NTP Date 3/9/2012	Completion Date 6/17/2013
Current Status		eptual Engineering by PB Barry Muranaka, Architect	Kanuji Parmar	
Scope	Note: All station 1. All required D 2. Station const 3. Facilities Elec 4. Site work aro 5. Site landscap 6. Coordination 7. Park + ride fac 8. Platform to be 9. Construct can 10. Vertical circu 11. Construct co 12 Lighting, HVA 13. Fire suppres 14. Installation s	a Stadium Station designs include: design Permits ruction and finishes ctrical & Mechanical und stations including demo ing with the Transit Arts Progra	ideway contractor) yay contractor) ators to be procured by oundations except in sh llary space and station of ent as reqd by City Fire	nadow of guideway equipment
Interface with other Contracts	SV-330 Kamehameha Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account		-		
Right of Way and Construction Easements			***	
Design Responsibility				
CM Responsibility				
		7		

Contract # Contract Title	SV-430 Airport Utility and Gu		The state of the s	Schedule Activity # G120, G130, G140		
	Sta 924+26 to Sta 116	9+44				
Contract info	Type QBS Selection - Service Proposal Date	e Contract	Budgeted Cost \$22,491,75 NTP Date			
	9/13/2009	1/10/2010	1/19/2010	Completion Date 11/9/2011		
Current Status	Advanced Conceptual Lead engineer: Hank V City and County prepar	Vei (Utilities) & Gary Ta	kahashi (Guideway)			
Scope	A) Airport Utility Relation 1. Design OH and under Telecom, TV cable, War B) Airport Guideway 1. Design guideway for 2 Design conduits for 3. Design anchorages 4. Design 6 (12 thru 17 5. Design conduits in c 6. Design 3 X-Overs, 7. Design modifications 8. Design landscaping, 9. Design station concurrence 10. Design roadway result to the station of the station of the station of the station concurrence 11 Design guideway elements.	pocation Design erground utility relocation ater, Sewer, Petroleum) Design undations, substucture a Systems contracts and base plates for Star by TPSS - (foundations, able tray inside guidew incl switch machines is to affected intersection fencing, civil site impro ourse foundation within pairs - curb gutters, side ectrical services for light	nd superstructure incl plintions contracts (4 stations underground conduits and ay as including signalization vements and irrigation	nths and rail s not included) nd risers only) lian barriers, etc ther wayside equipment.		
Interface with other Contracts	DBB-450 Airport Utility DBB-460 Airport Guide SV-330 Kamehameha SV-530 City Center Gu SV-440 Airport Stations	way Construction Guideway & Utility Desi ideway & Utility Design				
Force Account						
Right of Way and Construction Easements	3					
Design Responsibility		·		-		
CM Responsibility						

Contract # Contract Title	ntract Title Airport Stations (3) Design (Pearl Harbor, Airport, and Lagoon Street) Sta 980+00 to Sta 1220+00		Schedule Activ H100, H110	ity#	
Contract info	Туре		Budgeted Cost		
		Service Contract	\$2,038,684		
	Bid Date 3/9/2012	Award Date 7/6/2012	NTP Date 1/7/2012	Completion Date 10/15/2013	
Current Status		eptual Engineering by PB Gary Takahashi, Architect Kar	ıuji Parmar		
Scope	I. Design Pearl 2. Design Airpo 3. Design Lago		ırse)		
	1. All required D 2. Station const 3. Facilities Elec 4. Site work aro 5. Site landscap 6. Coordination 7. Park + ride fac 8. Platform to be 9. Construct can 10. Vertical circu 11. Construct co 12 Lighting, HVA 12. Fire suppress	ruction and finishes ctrical & Mechanical und stations including demo if ing with the Transit Arts Program	way contractor) contractor) s to be procured by adations except in sh	adow of guideway equipment	
Interface with other Contracts	SV-430 Airport (MI-920 Vehicle a MI-930 Elevators		*		
Force Account					
Right of Way and Construction Easements					
Design Responsibility					
CM Responsibility				•	

Contract # Contract Title	City Center Utility and Guideway Design Sta 1169+44 to Sta 1470+00			y #	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost \$24,098,845		
	Proposal Date 3/20/2010	Award Date 7/17/2010	NTP Date 7/18/2010	Completion Date A) 4/13/2011 B)7/6/2012	
Current Status	City and County prepa	ring RFP			
Scope	A) City Center Utility Relocation Design 1. Design OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, TV cable, Water, Sewer, Petroleum) B) City Center Guideway Design 1. Design guideway foundations, substructure and superstructure incl plinths and rail 2. Design guideway foundations, substructure and superstructure incl plinths and rail 2. Design conduits for Systems contracts 3. Design anchorages and base plates for Stations contracts (2 stations not included) 4. Design 5 (18 thru 22) TPSS - (foundations, underground conduits and risers only) 5. Design conduits in cable tray inside guideway 6. Design 4 X-Overs, incl switch machines 7. Design modifications to affected intersections including signalization 8. Design landscaping, fencing, civil site improvements and irrigation 9. Design station concourse foundation within shadow of guideway 10. Design roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc 11. Design guideway electrical services for lighting, switch machine & other wayside equipment.				
Interface with other Contracts	35 straddle bents + 11 DBB-550 City Center of DBB-560 City Center of SV-430 Airport Guidew SV-440 AirportStations SV-540 City Center State SV-542 Dillingham State SV-545 Kaka'ako State	C-bents on stretch from Utility Relocation Guideway Construction vay & Utility Design (3) Design ations (3) Design tions (3) Design ions (3) Design		bents + 5 C-bents on Dillingham and	
	MI-920 Vehicles and S	ystems			
Force Account					
Right of Way and Construction Easements					
Design Responsibility					
CM Responsibility					

Contract #	SV-540	Schedule A	Activity #		
Contract Title	Dillingham Stations (3) Design	H100, H110			
	(Middle St, Kalihi, Kapalama)	Note that the same of			
	Sta 980+00 to Sta 1220+00				
Contract info	Туре	Budgeted C	Budgeted Cost		
	QBS Selection - Service Contract	\$1,363,683			
	Bid Date Award Date	NTP Date	Completion Date		
	9/5/2012 1/2/2013	1/3/2013	4/13/2014		
Current Status	Advanced Conceptual Engineering by P	В	•		
	Lead engineer: Gary Takahashi, Archite	ect Kanuji Parma	r		
Scope	Design Middle Street Station				
Scope	3. Design Middle Street Station 3. Design Kalihi Station (no concours	· • \			
	4. Design Kanni Station (no concours				
	4. Design Rapalama Station (no conce	Juis			
	Note: All station designs include:				
	All required Design Permits				
	Station construction and finishes				
	Facilities Electrical & Mechanical				
	Site work around stations including de-	emo if needed			
	5. Site landscaping				
	6. Coordination with the Transit Arts Pro	ograi			
	7. Park + ride facilities	J			
	8. Platform to be placed on cap (caps by	quideway contra	ac		
	9. Construct canopy (foundations by guid				
	10. Vertical circulation (escalators and el				
	11. Construct concourse incl columns ar				
	12 Lighting, HVAC electrical service to a				
	12. Fire suppression system(s) and equi				
	14. Installation security systems & alarm				
Interface with other	SV-530 Civic Center Guideway and Utili	ty Design			
Contracts	MI-920 Vehicle and Systems		• •		
	MI-930 Elevators and escalators				
Force Account					
			4 🖤		
Distriction 1					
Right of Way and					
Construction Easements					
Design Responsibility					
2 5 5 gri i tooporioibility			1-, 34		
			7 19		

CM Responsibility	

Contract # Contract Title	City Center Stations (3) Design (Iwilei, Chinatown & Downtown) Sta 1220+00 to Sta 1390+00		Schedule Activ U100, U110	ity#		
Contract info	Type QBS Selection - Servic		Budgeted Cost \$1,363,684	\$1,363,684		
	Bid Date 12/14/2012	Award Date 4/12/2013	NTP Date 4/13/2013	Completion Date 7/22/2014		
Current Status	Advanced Conceptual I Lead engineer: Clyde S	Engineering by PB Shimuzu & Lee Takushi,	Architect Kanuji Pa	ırmar		
Scope	 Site landscaping Coordination with th Park + ride facilities Platform to be placed Construct canopy (fo Vertical circulation (Construct concours Lighting, HVAC elect 	Station Station Is include: Permits and finishes Is Mechanical Istions including demo if it Is Transit Arts Program If on cap (caps by guidew undations by guideway iescalators and elevators ie incl columns and fountrical service to ancillary stem(s) and equipment	way contractor) contractor) s to be procured by dations except in sh	adow of guideway equipment		
Interface with other Contracts	SV-530 City Center Gu MI-920 Vehicle and Sys MI-930 Elevators and e		n			
Force Account	1 - 10 - 1					
Right of Way and Construction Easements				-		
Design Responsibility						
CM Responsibility						

Contract # Contract Title	SV-545 Kaka'ako Stations (3) Design (Civic Center Kaka'ako, Ala Moana) Sta 1390+00 to Sta 1470+00	Schedule Activity # Y100, Y110 Budgeted Cost \$1,363,684 NTP Date Completion Date		
Contract info	Type QBS Selection - Service Contract Bid Date Award Date			
	9/5/2012 1/2/2013	1/3/2013	4/13/2014	
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Clyde Shimuzu, Architect Kanuj		1,11,02011	
Scope	1. Design Civic Center Station (no concourse) 2. Design Kaka'ako Station (no concourse) 3. Design Ala Moana Station Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	SV-530 City Center Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators	1		
Force Account				
Right of Way and Construction Easements			1	
Design Responsibility CM Responsibility				
Om reapondibility		**		

Contract # Contract Title	SV-900 Program Management	t Support	Schedule Activi S100, S120	ty#	
Contract Fide	Sta 370+00 to Sta 1470		3100, 3120		
Contract info	Type QBS Selection - Service Contract		Budgeted Cost \$138,579,394		
	RFP date 9/12/2009	Award Date 1/9/2010	NTP Date 1/10/2010	Completion Date 3/3/2019	
Current Status	City and County prepare	ing RFP			
Scope	throughout the design a 2. The Program Manag construction, manufactu	gement Consultant wand construction phase gement Consultant waring, precasting, insignment Consultant waring, precasting, insignment Consultant waring.	ill assist RTD with speciese. ill also assist RTD with o tallation, testing and con ill assist RTD with hi-leve	versight of design, missioning.	
Interface with other Contracts	All DB, DBB, SV, MI and	d OF contracts			
Force Account				·····	
Right of Way and Construction Easements					
Design Responsibility					
CM Responsibility			•	, <u></u>	

Contract # Contract Title	SV-910 General Construction Management Support Sta 370+00 to Sta 1470+00		Schedule Activity # V100, V110	
Contract info	Type QBS Selection - Service Contract		Budgeted Cost \$251,962,535	
	Proposal Date 9/12/2009	Award Date 1/9/2010	NTP Date 1/10/2010	Completion Date 3/3/2019
Current Status	City and County pre	paring RFP		
Scope	The General Con and construction con The General Con- construction, manufa The General Conincluding schedule re	Construction Management of struction Manager will assist for intracts. Struction Manager will assist for acturing, precasting, installation struction Manager will assist for eviews, quality, safety monito payments, claims and changer	RTD with procureme RTD with oversight o on, testing and comm RTD to manage the o ring, environmental	of design, nissioning, construction contracts
Interface with other Contracts	All DB, DBB, SV, MI	and OF contracts		
Force Account				
Right of Way and Construction Easements				
Design Responsibility CM Responsibility				

Contract # Contract Title	DB-1200 West Oahu / Farrington Guideway & Utilities Design & Construct Sta 392+00 to Sta 748+04		Schedule Activity # P120, P180, P380, P230, P340, W100, W110, W120	
Contract info	Design Build Competitive - Best Value RFP Part 1 Date 2/4/2009 A Proposal Due Date	- RFP RFP Part 2 Date 4/3/2009 Award Date	Budgeted Cost \$584,604,858 NTP Date Completion Date	
Current Status	7/31/2009	9/25/2009 ngineering / DEIS / EIS(lall	11/13/2009	7/7/2013 RM Towill,MK, ATA, Lyon)
Scope	Design and Construct 1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum) 2. Precast & Construct guideway including plinths and rail and 1 long span structure 3 Install conduits for Systems contracts 4. Install anchorages and base plates for Stations contracts (7 stations not included) 5. Install 8 (1 thru 8) TPSS - (foundations, underground conduits and risers only) 6. Install conduits in cable tray inside guideway 7. Install 5 X-Overs, incl switch machines 8. Modifications to affected intersections including signalization 9. Landscaping, fencing, civil site improvements and irrigation 10. Construct station concourse foundation within shadow of guideway 11. Roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc 12 Construct laydown yard(s) and casting yard, temp easements as reqd. 13. Guideway electrical services for lighting switch machine and other wayside equipment. 14. All permits required for construction 15. Final design and as-builts for all new and relocated facilities Current engineering assessment is this stretch will require 4 straddle bents + 2 C-bents.			n structure t included) ers only) rs, etc /side equipment.
Interface with other Contracts	SV-140 West Oahu Stations (3) Design SV-240 Farrington Stations (4) Design DBB-170 West Oahu Stations (3) Construction DBB-270 Farrington Stations (4) Construction MI-920 Vehicle and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account	g			
Right of Way and Construction Easements Design Responsibility CM Responsibility	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements D-B Contractor Design. TBD.			
			-	

Contract # Contract Title	DB-200 Maintenance and Storage Facility Design and Construct Sta 690+00 to Sta 724+00 approx		Schedule Activity # P620, P640, P685, P530, P640 M100, M110, M120	
Current Status Scope	Design Build Competitive - Best Value - RFP RFP Part 1 Date 5/29/2009 Proposal Due Date 1/18/2010 Advanced Conceptual Engineering (incl Utility of Segment Lead : Martin Hall / Kanuji Parmar (incl D-B Drgs & Contract packages being prepared Design and Construct Final design and as builts for all new and reloguated to the building structure (s) Construct earth retaining structure(s) Construct 3-story Operation and Maintenance OH cranes, turntable, machine shop, etc. Construct Maintenance of Way Building Construct and equip Vehicle Car Wash Install service and storage tracks Construct access roads and structures, illuming Fencing, landscaping, irrigation and all utilitical permits. Erumish running and thrid rail for the entire Fig. Store excess rail on the yard site for pick-up 14. All permits required for construction		cl work by Urban Works &Hawaii Design) ocated facilities. Yard ce Bldg at, wheel truing machine, floor jacks, nination and two parking lots ties First Project	
Interface with other Contracts	DB-1 200 West Oahu/Farrington Guideway and Utilities DBB-350 Kamehameha Utility relocation DBB-360 Kamehameha Guideway Construction DBB-270 Farrington Stations (3) Construction MI-920 Vehicle and Systems OF-940 Ticket vending machines			
Force Account		-		
Right of Way and Construction Easements Design Responsibility CM Responsibility	Property Agreement and MOU re use of old Navy Drum Yard. Private property agreements / easements as requitred City is responsible for Master Agreements D-B Contractor Design. TBD.			

Contract info Design Bid Build - Construct Saled Corpetitive Bid Date Award Date NTP Date Completion Date 2/5/2012 6/3/2012 6/13/2012 5/13/2014 Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Martin Hall (PB)	Contract # Contract Title	Sealed Competitive Bid		Schedule Activi X200, X210	ty#		
Bild Date 2/5/2012 6/3/2012 6/13/2012 6/13/2012 5/13/2014 Current Status Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Martin Hall (PB) Scope Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction (East Kopolei - 12 acres & UH West Oahu - 2-Five acre lots) 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as read by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements Interface with other Contracts CDB-1200 West Oahu / Farrington Guideway and Utilities CDB-1200 West Oahu / Farrington Gu	Contract info				Washing about 1		
Current Status 2/6/2012							
Segment Lead : Árchitect Kanuji Parmar (PB) / Civil Martin Hall (PB) Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction (East Kopolei - 12 acres & UH West Oahu - 2-Five acre lots) 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements Interface with other Contracts DB-1200 West Oahu / Farrington Guideway and Utilities SV-140 West Oahu Station Design MI-930 Escalators and Elevators OF-940 Ticket vending machines Force Account Right of Way and Construction Easements Design Responsibility Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements SV-140 TBD.							
1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction (East Kopolei - 12 acres & UH West Oahu - 2-Five acre lots) 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as read by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements Interface with other Contracts DB-1200 West Oahu / Farrington Guideway and Utilities SV-140 West Oahu Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines Force Account Right of Way and Construction Easements Design Responsibility Laydown yard(s) and casting yard, temp easements as required City is responsible for Master Agreements SV-140 TBD.	Current Status	Advanced Conceptual I Segment Lead : Archite	Engineering ect Kanuji Parmar (PB)	/ Civil Martin Hall (PB))		
Contracts SV-140 West Oahu Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines Force Account Right of Way and Construction Easements Design Responsibility SV-140 TBD. SV-140 West Oahu Station Design MI-920 Vehicles and Systems MI-920 Vehicles and Systems MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements SV-140 TBD.	Scope	 Obtain all required construction Permits Station construction and finishes Facilities Electrical & Mechanical Site work around stations including demo if needed Site landscaping Coordiantion with the Transit Arts Program Park-Ride lot construction (East Kopolei - 12 acres & UH West Oahu - 2-Five acre lots) Platform to be placed on cap (caps by guideway contractor) Construct canopy (foundations by guideway contractor) Vertical circulation (escalators and elevators to be procured by City) Construct concourse incl columns and foundations except in shadow of guideway Lighting, HVAC electrical service to ancilliary space and station equipment Fire suppression system(s) and equipment as reqd by City Fire Dept. Installation security systems & alarms 			City) adow of guideway equipment Dept.		
Right of Way and Construction Easements Private property agreements / easements as required City is responsible for Master Agreements SV-140 TBD.		SV-140 West Oahu Sta MI-920 Vehicles and Sy MI-930 Escalators and	tion Design estems Elevators	nd Utilities			
Construction Easements Private property agreements / easements as required City is responsible for Master Agreements Design Responsibility SV-140 TBD.	Force Account		·				
Construction Easements Private property agreements / easements as required City is responsible for Master Agreements Design Responsibility SV-140 TBD.	Right of Way and	Laydown yard(s) and ca	asting yard, temp ease	ments as read.			
Design Responsibility SV-140 TBD.		ts Private property agreen	nents / easements as r				
	Design Responsibility		City is responsible for Master Agreements				
CM Responsibility SV-910 TBD.	2 co.g. r roopenoibility						
	CM Responsibility	SV-910 TBD.					

Contract # Contract Title	DBB-275 Pearl Highlands Station and Mutiti Level Parking Structure Sta 580+00 to Sta 770+00		Schedule Activity # R400, R410		
Contract info	Design Bid Build - Construct		Budgeted Cost \$69,240,389		
	Sealed Competitive Bid Bid Date 5/26/2011	Award Date 9/22/2011	NTP Date 9/23/2011	Completion Date 4/14/2014	
Current Status	Advanced Conceptual E Segment Lead : Archite		B) / Civil Martin Hall (PB))	
Scope	Construct 1. Obtain all required construction Permits 2. Pearl Highlands Station & Multi Level Parking Structure construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City)				
	Construct concourse Lighting, HVAC elect Fire suppression system Installation security Provide as-built dra	trical service to ancill stem(s) and equipme systems & alarms awings in accordance	iary space and station entry as reqd by City Fire I with all City and HDOT	equipment Dept.	
Interface with other Contracts	DB-1200 West Oahu / F SV-245 Pearl Highlands MI-920 Vehicles and Sy MI-930 Escalators and I OF-940 Ticket vending	s Station & Multi level estems Elevators		gn	
Force Account					
Right of Way and Construction Easements	Laydown yard(s) and ca Private property agreem City is responsible for M	nents / easements as		-11-4-1	
Design Responsibility	SV-245 TBD.				
CM Responsibility	SV-910 TBD.	-			

	Schedule Activity # R600, R610		
Design Bid Build - Construct Sealed Competitive Bid	Budgeted Cost		
Bid Date Award Date 7/18/2011 11/14/2011	NTP Date 11/15/2011	Completion Date 5/2/2014	
Advanced Conceptual Engineering Segment Lead: Barry Muranaka (M&E)			
Highway repairs / modifications, signage, Construct laydown yard(s) and casting yar	lane markings, etc d, temp easements as re		
		0. 200	
DBB-350 Kamehameha Utility Relocation DBB-360 Kamehameha Guideway Construct	tion	nstruction	
Its Private property agreements / easements as	Navy Drum Yard. requitred		
SV-230 TBD.			
	Sealed Competitive Bid Bid Date 7/18/2011 Advanced Conceptual Engineering Segment Lead: Barry Muranaka (M&E) Construct 1. Acquire all permits required for the work 2. Construct Ramps (2) from H2 3. Landscaping, fencing, civil site improveme 4. Highway repairs / modifications, signage, 5. Construct laydown yard(s) and casting yar 6. Contract includes Utilty Relocation as requ DB-1 200 West Oahu/Farrington Guideway a DBB-350 Kamehameha Utility Relocation DBB-360 Kamehameha Guideway Construct DBB-275 Pearl Highlands Station & Multi Lev Property Agreement and MOU re use of old if Private property agreements / easements as City is responsible for Master Agreements	Sealed Competitive Bid Bid Date 7/18/2011 Advanced Conceptual Engineering Segment Lead: Barry Muranaka (M&E) Construct 1. Acquire all permits required for the work 2. Construct Ramps (2) from H2 3. Landscaping, fencing, civil site improvements, irrigation 4. Highway repairs / modifications, signage, lane markings, etc 5. Construct laydown yard(s) and casting yard, temp easements as re 6. Contract includes Utilty Relocation as required and identified under DB-350 Kamehameha Utility Relocation DBB-360 Kamehameha Guideway Construction DBB-275 Pearl Highlands Station & Multi Level Parking Structure Cor Property Agreement and MOU re use of old Navy Drum Yard. Private property agreements / easements as requitred City is responsible for Master Agreements	

Contract # Contract Title	DBB-270 Farrington Stations (3) Construction		Schedule Activity # R200, R210, R250			
Contract Title	(West Loch, Waipahu & Leeward Community College)					
200000000	Sta 580+00 to Sta	The state of the s				
Contract info	Design Bid Build - (Budgeted Cost			
	Sealed Competitive Bid Bid Date Award Date		\$32,682,155			
	1/11/2011	Award Date 5/10/2011	NTP Date 5/11/2011	Completion Date 9/16/2013		
Current Status	Advanced Conceptor Segment Lead : Arc	ual Engineering hitect Kanuji Parmar (PB) / Civil Martin Hall (PB)			
Scope	Construct					
		d construction Permits				
	2. Station construct					
	3. Facilities Electrica		if needed			
	5. Site landscaping	stations including demo	ir needed			
		n the Transit Arts Program	ń			
	7. Park-Ride lot con					
	The second of th	8. Platform to be placed on cap (caps by guideway contractor)				
		9. Construct canopy (foundations by guideway contractor)				
	10. Vertical circulation (escalators and elevators to be procured by City)					
	11. Construct concourse incl columns and foundations except in shadow of guideway					
	12 Lighting, HVAC electrical service to ancilliary space and station equipment					
	12. Fire suppression system(s) and equipment as reqd by City Fire Dept.					
	14. Installation security systems & alarms					
	15. Provide as-built drawings in accordance with all City and HDOT requirements					
Interface with other	DB-1200 West Oah	u / Farrington Guideway	and Utilities			
Contracts	SV-240 Farrington S		and Oundes			
	MI-920 Vehicles and Systems					
	MI-930 Escalators and Elevators					
	OF-940 Ticket vending machines					
		7 - T				
Force Account						
Right of Way and	Laydown yard(s) an	d casting yard, temp eas	ements as regd.			
	s Private property agr	eements / easements as	required			
		or Master Agreements				
Design Responsibility	SV-240 TBD.					
CM Responsibility	SV-910 TBD.					

Contract Title	DBB-350 Kamehameha Utili Construct Sta 748+04 to Sta 9		Schedule Activit K200, K210	y#
Contract info	Design Bid Build - (Construct	Budgeted Cost	
	Sealed Competitive		\$28,241,011	
	Bid Date 5/21/2011	Award Date 9/17/2011	NTP Date 9/18/2011	Completion Date 11/15/2012
Current Status	Advance Conceptua Segment Lead: Ban	al Engineering (incl Utility ry Muranaka	y work by PB, M&E,Naka ocation package being pr	muraOyama, ATA, Lyon)
Scope	Construct 1. OH and undergro Telecom, Cable, V 2. Acquire all permi	ound utility relocations (Water, Sewer, Petroleur its required for the work	incl HECO, Gas, AT&T, [Orainage, Hawaiian
1.4.4	01/000 1	1 11000 0 0 11 -		
Interface with other		eha Utility & Guideway E	Design	
Interface with other Contracts	SV-340 Kamehame			
And the state of t	SV-340 Kamehame DBB-360 Kameham DBB-370 Kameham	eha Station Design eha Guideway Construction eha Station Construction	etion	
And the state of t	SV-340 Kamehame DBB-360 Kameham DBB-370 Kameham MI-920 Vehicle and	eha Station Design leha Guideway Construction leha Station Construction Systems	etion	
And the state of t	SV-340 Kamehame DBB-360 Kameham DBB-370 Kameham Mi-920 Vehicle and MI-930 Escalators a	cha Station Design cha Guideway Construc- cha Station Construction Systems and Elevators	etion	
Contracts	SV-340 Kamehame DBB-360 Kameham DBB-370 Kameham MI-920 Vehicle and	cha Station Design cha Guideway Construc- cha Station Construction Systems and Elevators	etion	
Contracts Force Account	SV-340 Kamehame DBB-360 Kameham DBB-370 Kameham Mi-920 Vehicle and MI-930 Escalators a OF-940 Ticket vend	cha Station Design cha Guideway Construction cha Station Construction Systems and Elevators ing machines	etion n	
Contracts Force Account Right of Way and	SV-340 Kamehame DBB-360 Kameham DBB-370 Kameham MI-920 Vehicle and MI-930 Escalators a OF-940 Ticket vend	cha Station Design cha Guideway Construction cha Station Construction Systems and Elevators ing machines d casting yard, temp eas	etion n	
Contracts Force Account Right of Way and	SV-340 Kamehame DBB-360 Kameham DBB-370 Kameham Mi-920 Vehicle and MI-930 Escalators a OF-940 Ticket vend Laydown yard(s) and	cha Station Design cha Guideway Construction cha Station Construction Systems and Elevators ing machines d casting yard, temp ease eements / easements as	etion n	
Contracts Force Account Right of Way and	SV-340 Kamehame DBB-360 Kameham DBB-370 Kameham Mi-920 Vehicle and MI-930 Escalators a OF-940 Ticket vend Laydown yard(s) and	cha Station Design cha Guideway Construction cha Station Construction Systems and Elevators ing machines d casting yard, temp eas	etion n	

Contract # Contract Title	DBB-360 Kamehameha Guideway Construction Sta 748+04 to Sta 924+26 Design Bid Build - Construct Sealed Competitive Bid		Schedule Activit K300, K310	y#
Contract info			Budgeted Cost \$261,841,182	
	Bid Date 6/15/2011	Award Date 10/12/2011	NTP Date 10/13/2011	Completion Date 12/5/2014
Current Status	Advanced Conceptua Segment Lead: Barry		* "	
Scope	2 Install conduits for 3. Install anchorages 4. Install 3 (9,10 11)	and base plates for Stat TPSS - (foundations, und	ions contracts (2 station lerground conduits and	ns not included)
	 Install 2 X-Overs a Modifications to aff Landscaping, fencion Construct station of Roadway repairs Construct laydow Guideway electric Acquire all permi 	cable tray inside guideward switch machines fected intersections incluing, civil site improvement oncourse foundation with curb gutters, sidewalk, in yard(s) and casting yattal services for lighting sits required for the work drawings in accordance with the switch sidewalls.	ding signalization hts, irrigation hin shadow of guideway lane markings,median b rd, temp easements as witch machine and othe	parriers, etc reqd. r wayside equipment.
Interface with other Contracts	SV-330 Kamehameh SV-340 Kamehameh MI-920 Vehicles and MI-930 Escalators an	ha Station Construction a Utility and Guideway D a Station Design Systems d Elevators	esign	
Force Account	OF-940 Ticket vendir	ng machines		
	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-330 TBD.			
CM Responsibility	SV-910 TBD.	-		

Contract #	DBB-370		Schedule Activity #		
Contract Title	Kamehameha Stations (2) Construction (Pearl Ridge & Aloha Stadium) Sta 880+00 to Sta 980+00 approx		J200, J210, J220		
Contract info	Design Bid Build Sealed Competitive		Budgeted Cost \$22,008,197		
	Bid Date 6/18/2013	Award Date 10/15/2013	NTP Date 10/16/2013	Completion Date 4/28/2016	
Current Status	Advanced Concer Segment Lead : A	otual Engineering rchitect Kanuji Parmar (PB)	/ Civil Barry Murinaka	(M&E)	
Scope	Station constru Facilities Electri		pandad		
	5. Site landscaping. 6. Coordiantion wow. 7. Park-Ride lot construct canoping. 9. Construct canoping. Vertical circulations. 11. Construct construct canoping. HVAC 12. Fire suppressions.	g ith the Transit Arts Program	eway contractor) contractor) rs to be procured by Condations except in sharp ry space and station e as reqd by City Fire I	dow of guideway quipment Dept.	
Interface with other Contracts	DBB-360 Kameha	and Elevators	n		
Force Account					
	Private property ag	and casting yard, temp easer greements / easements as re for Master Agreements	nents as reqd. equired		
Design Responsibility CM Responsibility	SV-910 TBD.				

Rev # 1 Data Date: 11/03/2008 Prepared by: I Hubbard

Contract # Contract Title	DBB-450 Airport Utility Relocations - Construct Sta 924+26 to 1169+44		Schedule Activity # G220, G230	
Contract info	Design Bid Build - Cons	truct	Budgeted Cost	•
	Sealed Competitive Bid Bid Date 5/21/2011	Award Date 9/17/2011	\$41,135,816 NTP Date 9/18/2011	Completion Date 1/14/2014
Current Status	Segment Lead: Gary Tal	kahashi	work by PB, RMTowill, Ec	s, ĀTA, Lyon)
Scope	Construct	utility relocations (inc r, Sewer, Petroleum)	cl HECO, Gas, AT&T, Drai	
	3. Provide as-built drawi	ngs in accordance wi	th all City and HDOT requi	rements
Interface with other Contracts	SV-430 Airport Utility & SV-440 Airport Station D DBB-460 Airport Guidew DBB-470 Airport Station MI-920 Vehicle and Syst MI-930 Escalators and E	Design ay Construction Construction ems levators		
Force Account	OF-940 Ticket vending m	acnines		
Right of Way and Construction Easements	Laydown yard(s) and cas Private property agreeme City is responsible for Ma	ents / easements as re		
Design Responsibility	SV-430 TBD.	oto. Agroomonia		
CM Responsibility	SV-910 TBD.		·	

Contract # Contract Title	DBB-460 Airport Guideway Construction Sta 924+26 to 1169+44		Schedule Activity # G300, G310			
Contract info	Design Bid Build - Cons		Budgeted Cost			
	Sealed Competitive Bid		\$492,598,12			
	Bid Date 11/10/2011	Award Date 3/8/2012	NTP Date 3/16/2012	Completion Date 6/28/2015		
Current Status	Advanced Conceptual E Segment Lead: Gary Ta					
Scope	Construct			-4		
	Construct guideway i Install conduits for Sy	ncluding plinths and rail	and 2 long span stru	ctures		
	4. Install 6 (12 thru 17) 5. Install conduits in cab 6. Install 3 X-Overs and 7. Modifications to affect 8. Landscaping, fencing 9. Construct station con 10. Roadway repairs - of 11. Construct laydown y 12. Acquire all permits 13. Provide as-built dra	switch machines ted intersections including, civil site improvements acourse foundation within burb gutters, sidewalk, largard(s) and casting yard,	derground conduits a ng signalization , irrigation shadow of guidewa te markings, median temp easements as th all City and HDOT	and risers only) barriers, etc requirements		
Interface with other	DBB-450 Airport Utility I					
Contracts	DBB-470 Airport Station SV-430 Airport Utility an					
	SV-440 Airport Station [
	MI-920 Vehicles and Systems					
	MI-930 Escalators and Elevators					
	OF-940 Ticket vending	machines				
Force Account						
Right of Way and		asting yard, temp easem				
Construction Easements	Private property agreem		uired			
Design Responsibility	City is responsible for M SV-430 TBD.	laster Agreements				
Dodgii reapoliability	0 V-400 100.					
CM Responsibility	SV-910 TBD.					

Contract # Contract Title	DBB-470 Airport Stations (3) Construction (Pearl Harbor, Airport, Lagoon) Sta 1090+00 to 1300+00		Schedule Activity # I-770 H100, H110		
Contract info	Design Bid Build - Construct		Budgeted Cost		
	Sealed Competitive Bid		\$48,475,380		
4	Bid Date 10/16/2013	Award Date 2/12/2014	NTP Date 2/13/2014	Completion Date 1/12/2017	
Current Status	Advanced Conceptual El Segment Lead : Kanuji F (incl work by PB, RMT)	armar / Gary Takahashi /	Clyde Shimuzu		
Scope	Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements				
Interface with other Contracts	DBB-450 Airport Utility Relocatiosn DBB-460 Airport Guideway Construction SV-440 Airport Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines				
Force Account					
Right of Way and	Laydown yard(s) and cas	sting vard, temp easemen	ts as read.	-	
	Private property agreeme	ents / easements as requi	red		
	City is responsible for Ma				
Design Responsibility	SV-440 TBD.				
CM Responsibility	SV-910 TBD.				

Contract # Contract Title	DBB-550 City Center Utility Relocations Sta 1169+44 to Sta 1470+00		Schedule Activity # C200, C210		
Contract info	Design Bid Build - Con Sealed Competitive Bid	struct	Budgeted Cost \$199,761,577		
	Bid Date 5/21/2011	Award Date 9/17/2011	NTP Date 9/18/2011	Completion Date 9/6/2013	
Current Status	Segment Lead : Clyde S	g (incl Utility work by PB, C Shimuzu & Lee Takushi (D entified / Utility Relocation	Oillingham Ave)		
Scope	Telecom, Cable, Wat 2. Acquire all permits re	d utility relocations (incl HE ter, Sewer, Petroleum) equired for the work vings in accordance with a			
Interface with other Contracts	SV-530 City Center Uti SV-540 City Center Sta DBB-560 City Center G DBB-570 City Center St MI-920 Vehicle and Sys MI-930 Escalators and I OF-940 Ticket vending	ation Design uideway Construction tation Construction stems Elevators			
Force Account	OF-940 Ficket Vending	macrimes			
	Private property agreem City is responsible for M	asting yard, temp easemer nents / easements as requi laster Agreements	nts as reqd. ired		
Design Responsibility	SV-530 TBD.				
CM Responsibility	SV-910 TBD.				

Contract # Contract Title	DBB-560 City Center Guideway Construct Sta 1169+44 to Sta 1470+00		Schedule Activit C300, C310	y#
Contract info	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost \$373,255,409	
	Bid Date 7/7/2012	Award Date 11/3/2012	NTP Date 1/22/2013	Completion Date 6/24/2016
Current Status	Advanced Concep Segment Lead : C	tual Engineering lyde Shimuzu (PB)		-
Scope	Construct 1. Construct guideway including plinths and rail (no long span structures) 2 Install conduits for Systems contracts 3. Install anchorages and base plates for Stations contracts (9 stations not included)			
	5. Install conduits 6. Install 4 X-Over 7. Modifications to 8. Landscaping, fe 9. Construction of 10 Construction of 11. Construct layor 12. Acquire all per 13. Provide as-bu	in cable tray inside guides affected intersections in ncing, civil site improver xx Type C Bents yy Straddle Bents own yard(s) and casting mits required for the wo ilt drawings in accordance	cluding signalization nents yard, temp easements as	reqd. requirements
Interface with other Contracts	DBB-570 City Cen SV-530 City Cente SV-540 City Cente MI-920 Vehicles an MI-930 Escalators	nd Systems and Elevators	esign	
Force Account	OF-940 Ticket ven	ding machines		
Right of Way and Construction Easements Design Responsibility	Private property ag	nd casting yard, temp ea greements / easements a for Master Agreements	asements as reqd. as required	
CM Responsibility	SV-910 TBD.			

Contract #	DBB-570	Schedule Activ	ity#	
Contract Title	Dillingham Stations (3) Construction	H200, H210, H2		
Contract Title	(Middle St, Kalihi, Kapalama)	n200, n210, n2	20	
	Sta 1090+00 to 1300+00			
Contract info		Budgeted Cost		
Contract into	Design Bid Build - Construct Budgeted Cost Sealed Competitive Bid \$32,425,380			
		\$32,425,380	O	
	Bid Date Award Date 4/14/2014 8/11/2014	NTP Date	Completion Date	
Current Ctetur		8/12/2014	7/11/2017	
Current Status	Advanced Conceptual Engineering			
	Segment Lead : Kanuji Parmar / Gary Taka		muzu	
0	(incl work by PB, SSFM, AM Partners,PBF	R Hawall, RMTC)		
Scope	Construct			
	1. Obtain all required construction Permits			
	2. Station construction and finishes			
	3. Facilities Electrical & Mechanical			
	4. Site work around stations including dem	o if needed		
	5. Site landscaping			
	6. Coordiantion with the Transit Arts Progra	am		
	7. Park-Ride lot construction			
	8. Platform to be placed on cap (caps by gu		r)	
	9. Construct canopy (foundations by guidev			
	10. Vertical circulation (escalators and elevi			
3	11. Construct concourse incl columns and f	•	이번 그렇게 얼마면 하시지만 이렇게 다 전에 되는 유럽이 어린이를 가게 되었다.	
	12 Lighting, HVAC electrical service to anci			
	12. Fire suppression system(s) and equipm	ent as reqd by Ci	ty Fire Dept.	
	14. Installation security systems & alarms	''' " O''	LUDOT	
	15. Provide as-built drawings in accordance	e with all City and	HDO1 requirements	
	Note Transit Contact A Middle Ct by the			
	Note Transit Center at Middle St by others			
14				
Interface with other	DDD 550 0'4 0 -4 -4 18''' D 4 - 8			
Contracts	DBB-550 City Center Utility Relocations			
	DBB-560 City Center Guideway Construction	n		
	SV-540 City Center Station Design			
	MI-920 Vehicles and Systems			
	MI-930 Escalators and Elevators			
F A	OF-940 Ticket vending machines			
Force Account				
D: 14 (1)4				
Right of Way and	Laydown yard(s) and casting yard, temp ea			
Construction Easeme	Private property agreements / easements a	s required		
	City is responsible for Master Agreements			
Design Responsibilit	SV-440 TBD.			
CM Responsibility	SV-910 TBD.			
			20.100	

Contract # Contract Title	DBB-572 City Center Stations (3) Construction (Iwilei, Chinatown & Downtown) Sta 1310+00 to Sta 1390+00		Schedule Activity # U200, U210, U220			
Contract info	Design Bid Build - Construct		Budgeted Cost			
	Sealed Competitive Bid		\$32,425,380			
	Bid Date 7/23/2014	Award Date 11/19/2014	NTP Date 11/20/2014	Completion Date 6/14/2018		
Current Status	Advanced Conceptual E Segment Lead : Kanuji (incl work by PB, KGP	Parmar / Clyde Shimuz				
Scope	Construct 1. Obtain all required co 2. Station construction	nstruction Permits				
	 Station construction and finishes Facilities Electrical & Mechanical Site work around stations including demo if needed Site landscaping Coordiantion with the Transit Arts Program Park-Ride lot construction Platform to be placed on cap (caps by guideway contractor) Construct canopy (foundations by guideway contractor) Vertical circulation (escalators and elevators to be procured by City) Construct concourse incl columns and foundations except in shadow of guideway Lighting, HVAC electrical service to ancilliary space and station equipment Fire suppression system(s) and equipment as reqd by City Fire Dept. Installation security systems & alarms Provide as-built drawings in accordance with all City and HDOT requirements 					
Interface with other Contracts	DBB-550 City Center Ui DBB-560 City Center G SV-540 City Center Stat MI-920 Vehicles and Sy MI-930 Escalators and B OF-940 Ticket vending	uideway Construction tion Design stems Elevators				
Force Account						
Right of Way and	Laydown yard(s) and ca	sting yard, temp easer	ments as read.			
Construction Easements	Private property agreem	ents / easements as re	equired			
Design Responsibility	City is responsible for M SV-540 TBD.	City is responsible for Master Agreements				
CM Responsibility	SV-910 TBD.	-				

Contract # Contract Title	DBB-575 Kaka'ako Stations (3) Construction (Civic Center, Kaka'ako, Ala Moana) Sta 1400+00 to Sta 1470+00			Schedule Activity # Y200, Y210, Y220 Budgeted Cost			
Contract info		Design Bid Build - Construct Sealed Competitive Bid		Completion Date	7		
	4/14/2014	8/11/2014	NTP Date 8/12/2014	6/4/2018			
Current Status	Segment Lead : I	ptual Engineering Kanuji Parmar / Clyde Shim I, Urban Works, Hawaii Des					
Scope	Construct 1. Obtain all requ 2. Station constr	ired construction Permits uction and finishes ncal & Mechanical					
		ncal & Mechanical Ind stations including demo	if needed				
	5. Site landscapir		ii riccaca				
	6. Coordiantion v	vith the Transit Arts Prograr	n				
		7. Park-Ride lot construction					
	8. Platform to be placed on cap (caps by guideway contractor)						
	9. Construct canopy (foundations by guideway contractor)						
	10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway						
	12 Lighting, HVAC electrical service to ancilliary space and station equipment						
	12. Fire suppression system(s) and equipment as regd by City Fire Dept.						
	Installation security systems & alarms Provide as-built drawings in accordance with all City and HDOT requirements						
Interface with other	DBB-550 City Ce	nter Utility Relocatiosn					
Contracts		nter Guideway Construction					
	SV-545 Kaka'ako Station Design						
	MI-920 Vehicles and Systems						
	MI-930 Escalators and Elevators						
	OF-940 Ticket ve	OF-940 Ticket vending machines					
Force Account							
Right of Way and	Lavdown vard(s)	and casting yard, temp eas	ements as read.				
	ts Private property a	agreements / easements as	required				
	City is responsible	e for Master Agreements	40 /4 CM (1975)				
Design Responsibility	SV-545 TBD.						
CM Responsibility	SV-910 TBD.		****				
	SV-545 TBD.						

Contract # Contract Title	MI-920 Vehicles and Systems Sta 370+00 to Sta 1470+00		Schedule Activity # P312, P720, P990 P830, P945, T260		
Contract info	Design Build Competitive - Best Valu RFP Part 1 Date 4/9/2009 Proposal Due Date 2/26/2010	ue - RFP RFP Part 2 Date 7/31/2009 Award Date 5/21/2010	Budgeted Cost \$529,331,729 NTP Date 7/9/2010	Completion Date 3/11/2019	
Current Status	Advanced Conceptual Segment Lead : Mike E	Engineering	77972010	[3/11/2019	
Scope Interface with other Contracts	Design & Construct 1. Design Manufacture 2. Design Manufacture 3. Design Manufacture 4. Design Manufacture 5. Systems Contract is at the Manitenance Fac 6. Provide as-built draw All DBB Contracts Add DB Contracts	Install Traction Power Install Communication Install Signal Systems project wide including cility OCC.	Systems & Test / Come Systems & Test / Come & Test / Commission all operation and moniton	mision oring equipment	
Contracts	MI-930 Escalators and OF-940 Ticket vending				
Force Account					
Right of Way and Construction Easements	City is responsible for N	nents / easements as r	ments as reqd. required		
Design Responsibility	Design-Build TBD.				
CM Responsibility	SV-910 TBD.				

Contract # Contract Title	MI-930 Procurement, Install Commisioning Elev (19 stations project v	ators & Escalators	Schedule Activit L100, I110	ly #
Contract info	Design Build Competitive - Best Va RFP Part 1 Date		Budgeted Cost \$78,167,334	
Current Status	Proposal Due Date 2/21/2011 Advanced Conceptua	Award Date 9/17/2011 I Engineering	NTP Date 9/18/2011	Completion Date 1/3/2018
Scope	Civil work on guidewa guideway contractor. Station structure and the Station contractor Refer to scope of work Close coordination be	st & Commision Elevator by structure and foundations finishes and foundations k by guideway and station tween contracts and strict tolerances will be critical	ons within guideway shoutside of guideway son contractors for detailst compliance with all of	nadow will be by hadow will be by ls. contract requirements
Interface with other Contracts	DB-1200 West Oahu	75 All station construct co Vehicles		
Force Account			**	
Right of Way and Construction Easements				
Design Responsibility	Design-Build TBD.			
CM Responsibility	SV-910 TBD.			

	Schedule Ac	tivity#
ending Machines		
t wide - 19 stations)		
	Budgeted Cor	et .
		Completion Date
Award Date	NTP Date	Completion Date
it Lead : Architect Kanuji Parm	nar (PB)	
Eurnich		
	nished by the City	
ricket veriding machines turn	iished by the City.	
thru SV-545 All station design	contracte	
	struct contracts	
Systems and Vehicles		
	<u> </u>	
TBD.		
	Vending Machines Furnish Et wide - 19 stations) Bid Build - Construct Competitive Bid Et Lead : Architect Kanuji Parm Furnish I Ticket vending machines furn O West Oahu and Farrington I O thru DBB-575 All station con Systems and Vehicles	Vending Machines Furnish It wide - 19 stations) Bid Build - Construct Competitive Bid Example Award Date Award Date Award Date NTP Date Strunish Ticket vending machines furnished by the City. Strunish Ticket vending machines furnished by the City. Thru SV-545 All station design contracts Of West Oahu and Farrington DB Of thru DBB-575 All station construct contracts Systems and Vehicles

Contract #	OF-950		Schedule Activit	y #
Contract Title	Plants and Shrubs			
	Owner Furnish			
	Sta 370+00 to Sta 1470	+00		
Contract info	Design Bid Build - Cons		Budgeted Cost	
	Sealed Competitive Bid		\$5,350,000	
	Bid Date	Award Date	NTP Date	Completion Date
	TBD	Award Date	INTE Date	Completion Date
Current Status	100			
Current Status	Segment Lead : Archited	I t Kanuji Parmar (PB)		
Scope	Owner Furnish	L	- d b - 4b - 64	
	Install Plants and shru	bs project wide furnish	ed by the City.	
	Nata It was the desided I	akan ka arribultutula khila ar		
	Note It may be decided I			egments
	to allow small business la	andscaping tirms to cor	npete.	
				1 1
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				V)
				1 1 1
Interface with other	All DB Contracts	- · · · · · · · · · · · · · · · · · · ·		
Contracts	All DBB Contracts			
Contracts	All SV Contracts			
	All CV Contracts			
	W			
				V
Force Account				
Right of Way and				
Construction Easements				
Design Responsibility	TBD.		-	
CM Responsibility	SV-910 TBD.			
OW Responsibility	54-510 1DD.			

Company Comp	ğ	Summary of Costs by contract including distribution of soft costs	ion of soft costs					ž	Rev 3 - Updated 11-05-2008	800						-		-	-		
Column C		im daig Presiminary Estimate dat	(80/EZ/6.9)					A	Hubbard					-			1	-	1	T	
March Marc			Components of	Cost (see J Baig o	natimates for sour	rce, Includes adju	stments to redis		viste contract		Total Cost by Contract		Final design	1	Constr Mgmf		-	O.fox.	Start up	Total soft costs	Total Cost by Contract
March Marc											(not incl soft costs)			1		++	+++			by Contract	(incl soft co
1970-24 1970-25 1970		Project wide systems & Vehicles	\$43,886,244		\$308.805.857	-57-	- , -	\$41,580,789	THE PARK TO	\$9,223,004	\$551,518,586	•	\$11,012,081.81	0 37-12	0			-11-	584,952,52	\$28,141,967	ST2,080,ST2
Marie Mari		WOahu Utility and Quideway DB	\$214,170,456	П		++	579,818,172	554,529,287	\$1,250,900	(aysterns add) -\$4,762,088	\$524,309,290	0	\$23,593,918.05	0			+	+	1,350,825,15	\$60,295,568	\$584,004,858
Marie Mari		Maint & Storage Facility	\$117,157,815				(2 ramps) (6	P&R Structure)		(MARE)	\$117,157,815	•	\$5,272,101.68	0		11,757,387,23	-		120,523,001	\$13,472,149	H96.003,0018
Marie Mari		Partington H2 Ramps Construct	\$78,818,172								\$79,818,172		\$3,581,817.74		T	11 167 172.58 \$1	-	+	703 626 02	19 179 080	535 766 848
Partial Column		Kem Utility Relocation	\$78,300,468								\$26,380,488	•	•	0		\$385,802.02		+	22,771,38	\$1.847.543	\$28.261.011
This control 1980		Airport Litting Relocation	C10 444 607								CN 444 607				c	***************************************	Н	1			
1960 1960			100														Н	tt			POP I
1968 1968 1968 1968 1969		cult come come vend vendentes	-	-		-					Pan'ran'aare	•				A CHOCANO IN	-1-1	+	279730	113,080,514	775,187,9818
1965 1965 1966		Kam Guidewny Construct	\$26,423,171	2165,119,345	54,419,429	-\$1,250,000					\$244,711,345	•	•	•		52,670,670,79		+	564,898.48	\$17,129,797	\$281,641,182
Mathematical Control	IJ.	Airport Guideway Construct	\$460,372,062								\$480,372,062	0	0		П	\$6,905,581.24 \$4	11	11	1113.022.44	\$12,226,046	\$492,598,128
Mathematical Continue		City Center Guideway Construct	651,038,852	11	\$17,438,924	41,250,000					10/90/19ch	0	•		1	\$335.50.47 \$5	++	++	209,269,09	\$24,418,578	\$27,255,408
Marketti 1<	11	WO Station Construct (3)	010,681,310								\$30,441,310	•	•		0	+	+	+	SESALETO	\$2,147,892	\$32,629,002
Partial Control		Fertington Station Construct (1)	\$30,544,070								\$30,544,070	•	0	•	•	-	+		009,042.46	\$2,138,065	\$32,642,155
1		Pearl Hightend Sta (1) & Garage Constr	\$64,710,644					-			S84.710.644	•	•	•	•	+	+		200 677 64	24 678 745	SEE OF SEE
1985/04 1 1 1 1 1 1 1 1 1	L. L.	Kem Stations (2) Construct	\$20.568.408								ADA 802 OCS					++	+	11	20 100 100	2000	200 000 000
1960-1044- 1	1.1	The second of seconds are									1000	,				++	+	t	97 569 617	81,448,768	27,000,13
1985, 1985		Airport Stations (3) Construct	\$45,304,084								\$45,304,094		•	0	0	-	+	+	545,640.28	\$2,171,287	\$48,475,380
1985/2004 1985/2014 1985	1.1	Dillingham Statlens (3) Construct	130,304,094								\$30,304,084						H	Ħ	060,643.28	\$2,121,287	\$32,425,380
Maximatical Linearine in State (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	11	City Center Stations (3) Construct	\$30,304,084								\$30,304,084		•	0	0		+	H	080,643,28	\$2,121,287	\$12,425,340
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	LE	Keke eko stations (3) Construct	H0 100 005								190,100,064		•	0	•		++	11	000,643.28	52,121,287	ORC \$23°CC\$
4 Marchine 4 Marchine 4 Marchine 6 months 7 months 8 months 8 months 8 months 8 months 8 months 9 months	1.1	Project Wide Elevators & Escalators	\$10,009,108	\$18,909,618	\$4,682,740	++	\$10,000,100		\$16,039,100	\$10,000,100	\$36,144,341	0	\$1,878,486.35	0	11	\$1,292,165.12 \$1		11	015,051.9A	89,908,580	0+6'050'965
1		Project Wilde TVM	14,782,084						eacel elev add 3 sta)		#90'ZHZ'H\$		0	0	•	\rightarrow	H	H	M. 578,801	970376	\$5,006,413
14 14 15 15 15 15 15 15	11	Project Wide Plants & Shrubs	\$5,000,000								\$5,000,000		0	0	•	H	-		05,000,271	000,0350	\$6,350,000
1		ROW	501,017,514	14,701,671	94,304,670	\$10,842,508	947,533,580				\$137,196,522	0	0	0	•	•			0	0	\$137,196,532
1	Jul	Project Wide Program Mgmt										0	•	145,754,232	0	•	0	•		\$145,754,232	\$145,754,232
1		Project Wide Constr Mymet											•	0	265,007,694	•	0	0	0	\$265,007,694	\$265,007,694
1		Kem Utility & Gideway Design											12,190,716		0	0				\$12,190,718	\$12,100,710
1. 1. 1. 1. 1. 1. 1. 1.		Airport Uttily & Guideway Design										•	22,446,756	0	•	0				\$22,446,755	\$22,448,756
1	de la	Olly Center Utility & Quideway Design										•	24,098,845		•	0				\$24,088,845	\$24,098,845
13 13 13 13 13 13 13 13	- 1	WO Stations (3) Design										•	1,380,658	•	•	•				\$1,380,659	\$1,340,668
1	14	Farrington Stations (3) Design											1,374,403	0	•	•				\$1,374,483	\$1,374,483
1	11	Farrington Mg Ramps Design										•	3,501,818	0	0	0	0	0	0	\$1,561,616	\$18,188,53
1		Pearl Highland Sta & Gar Design										•	2,811,976	0	00	0	0	0		\$2,911,979	\$2,911,979
1 1 1 1 1 1 1 1 1 1	44	Kam Stations (2) Designs											\$75,578	0	0	•	0	•		8925,578	\$12,528
1.50		Airport Stations (3) Design										•	2,038,884	0	0	0	•	0		12 008 864	\$2,038,684
1,30,544 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	Olly Center Stations (3) Design										0	1,30,684	•	•	•	•	•		\$1,363,684	\$1,362,684
	1	Dillingham Stations (3) Design										•	1,363,684	0	0	0	0	•		11,363,684	180,080,18
PROJUCTION O O O O O O ONE CONTROL OF THE PROPERTY OF THE PROP		Kaka Alto Stations [3] Design										•	1,363,684	•	•	•	•			\$1,363,684	\$1,383,684
STAGES OF STEELES STATES STATE	T)											\$78,502,308	•	0	0	•		0	0	\$79,502,308	\$78,502,308
Fresch flasers											\$3,084,078,128	\$78,562,108	\$122,406,947	\$148,784,232	\$288,007,694	+	+		12,762,693	\$736,175,606	\$5,682,263,734
	1																-	+		Project Reserve	\$213,636,224
	_							-												Contract of the last of the la	